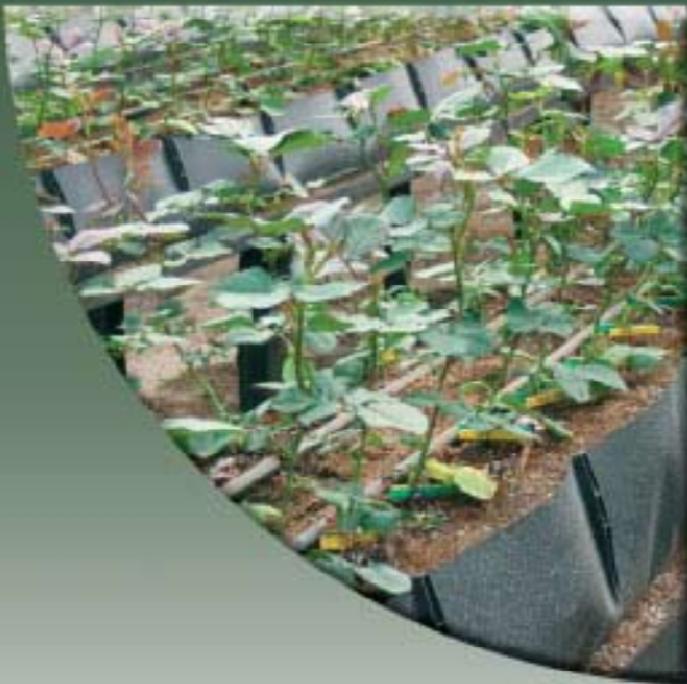


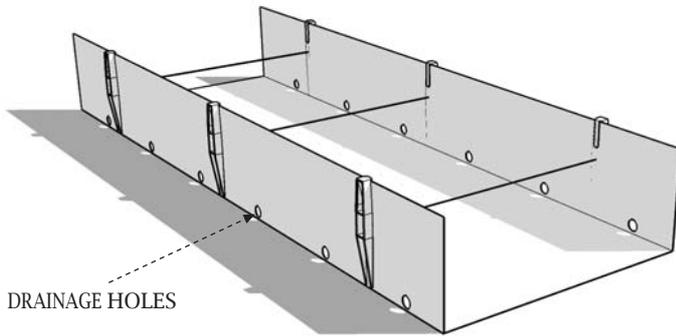
Higher Yields
under Controlled
Conditions

SOILLESS
GROWING
TECHNOLOGY

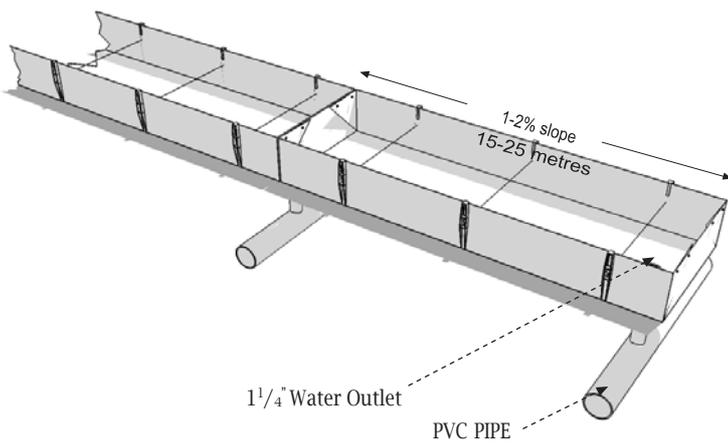


Specialised equipment for the soilless growing of vegetables, roses, cut flowers, herbs, strawberries and growbag systems

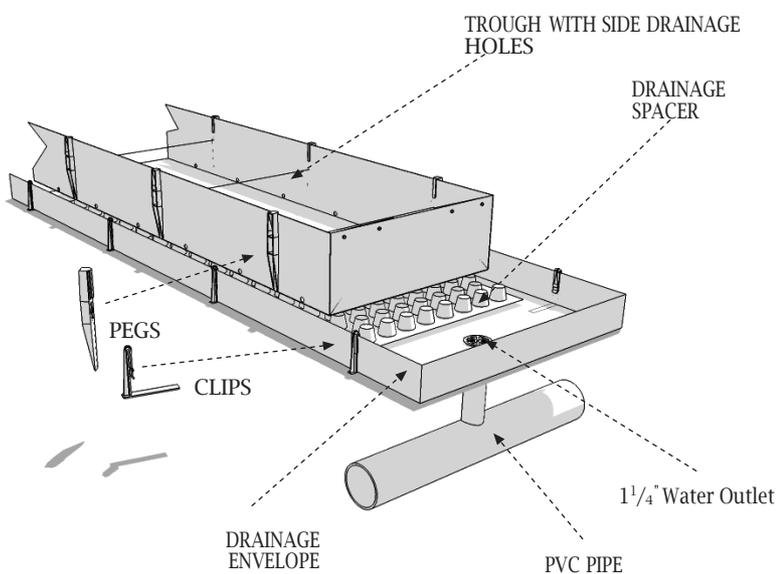
MAPAL TROUGH WITH SIDE DRAINAGE HOLES



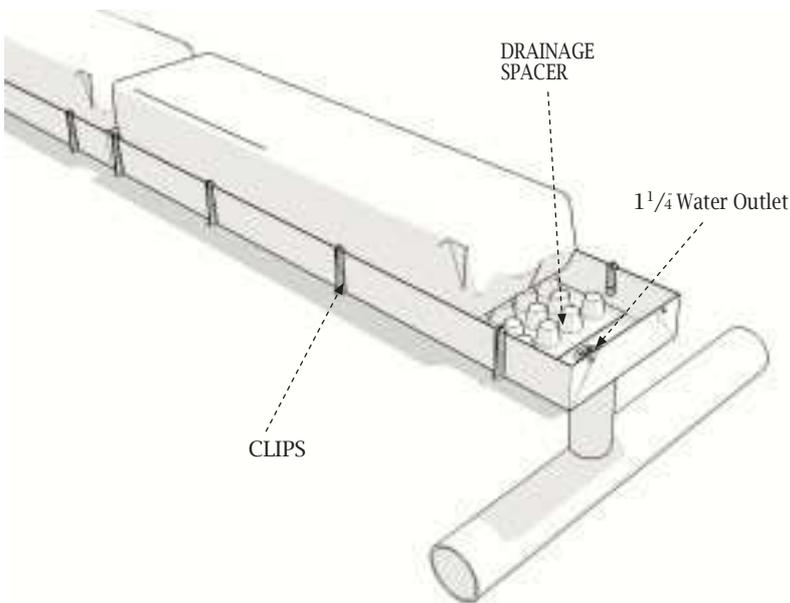
MAPAL TROUGH WITHOUT DRAINAGE HOLES



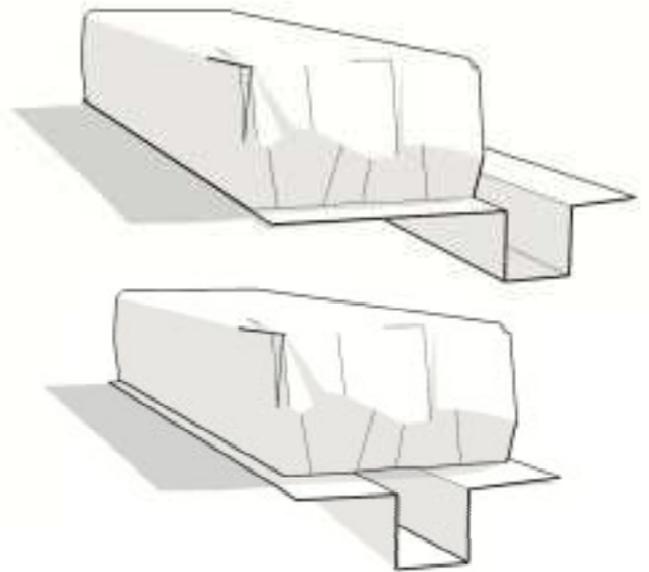
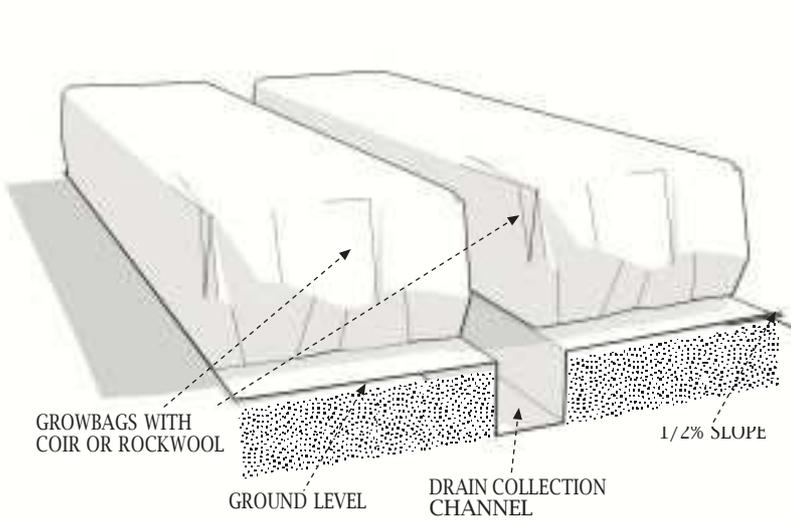
MAPAL TROUGH WITH DRAINAGE ENVELOPE & DRAINAGE SPACER



MAPAL TROUGH + DRAINAGE SPACER FOR GROWBAGS (COIR & ROCKWOOL)

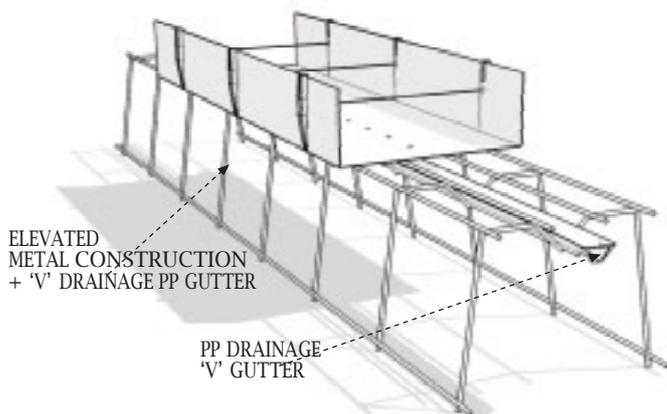


MAPAL DRAINAGE COLLECTION GUTTERS FOR GROWBAGS (COIR & ROCKWOOL)

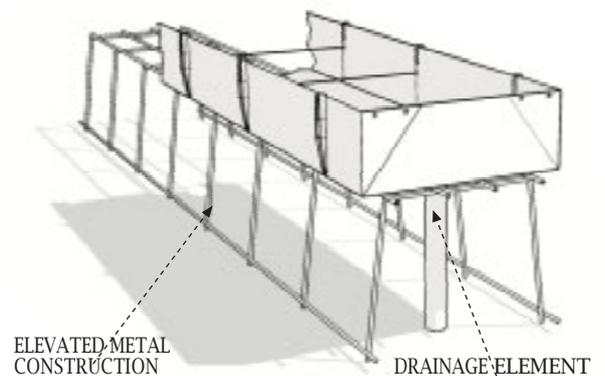


MAPAL GALVANIZED METAL ELEVATION TROUGH SYSTEM

'V' SHAPE



STANDARD SHAPE



MAPAL HANGING GUTTER SYSTEM FOR STRAWBERRIES

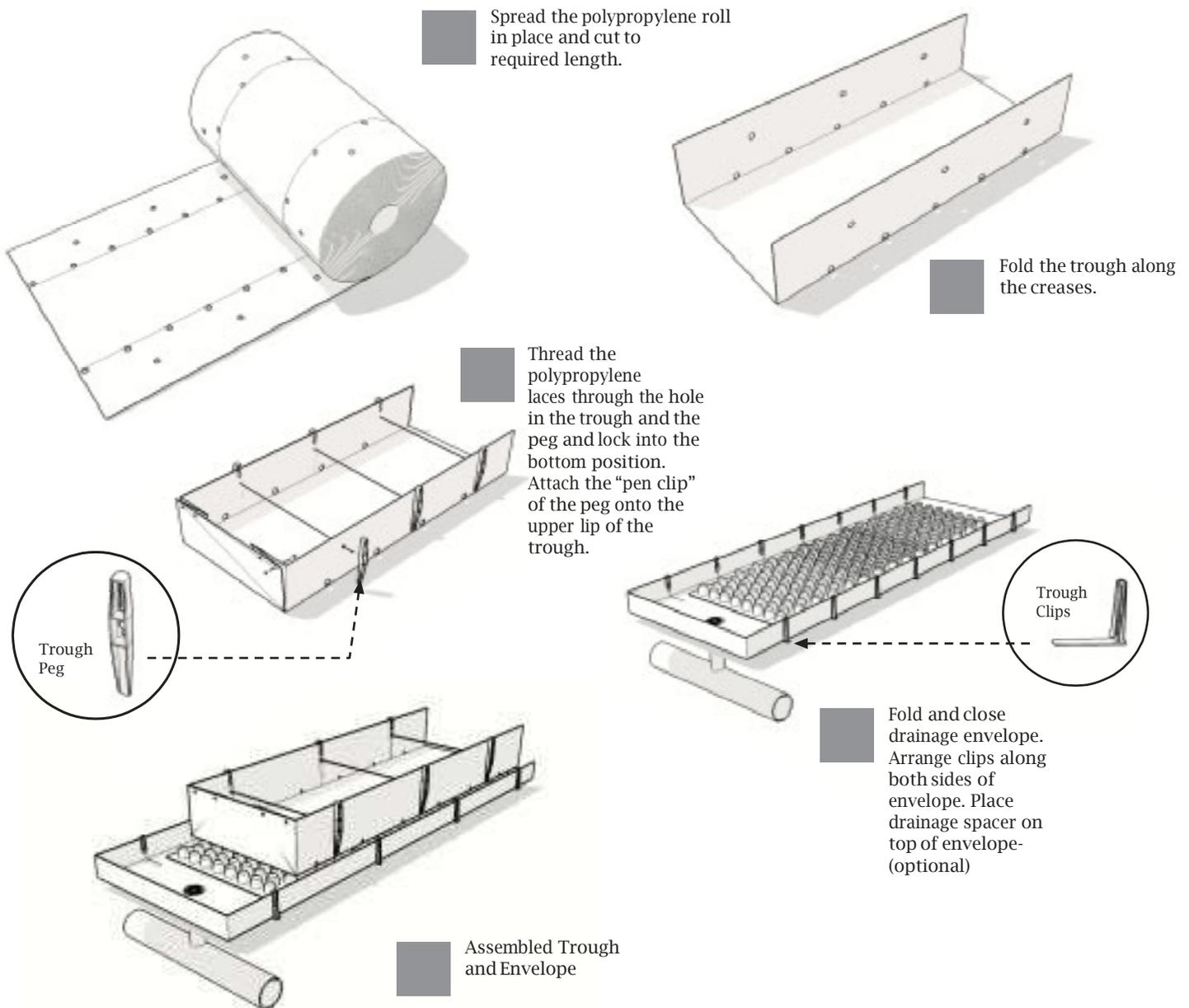


ASSEMBLY OF MAPAL HANGING GUTTER SYSTEM

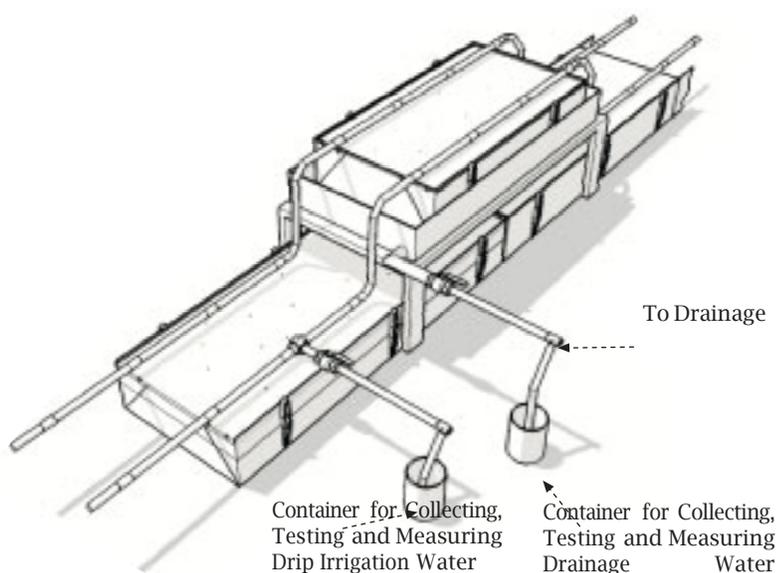
1. Spread the Polypropylene container on a flat surface and fold along the crease marks in order to facilitate construction.
2. Fold the polypropylene container making sure to secure the top straps and end flaps.
3. Insert the polypropylene container into the PVC Drain Collection Gutter.
4. ASSEMBLY OF THE DRAIN END SECTION
Insert the $1\frac{1}{4}$ drain unit into the hole in the PP end section.
Fold and construct the end section with the plastic rivets provided.
Attach the PP end section to the PVC gutter by drilling holes in the appropriate position and inserting the rivets provided.



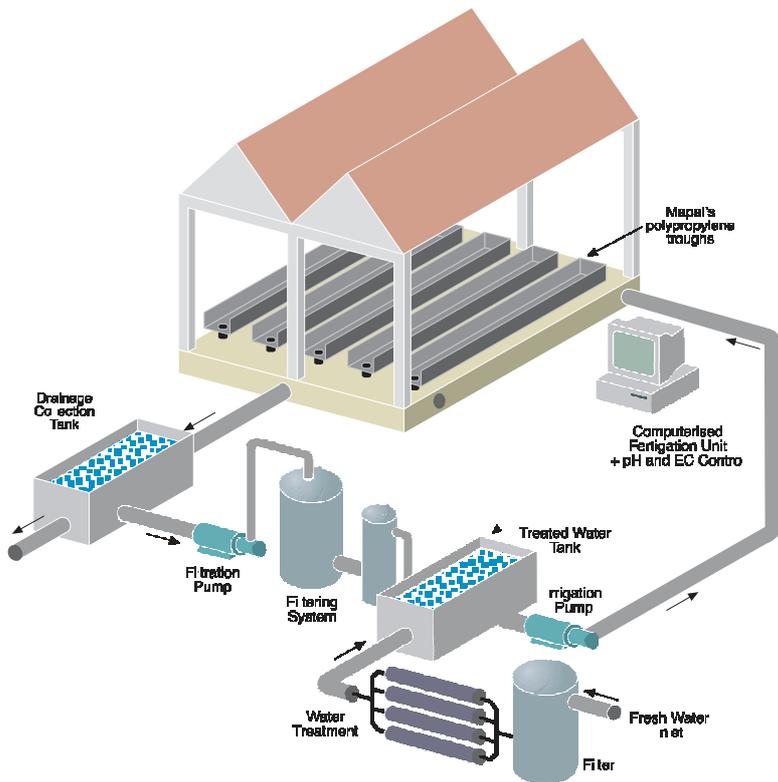
MAPAL TROUGHING SYSTEM - Instructions for Use



MAPAL LYSIMETER



WATER RECYCLING SYSTEM IN A GREENHOUSE



MAPAL TROUGH SYSTEM

- Resistant to UV
- Resistant to Steam Sterilization
- Resistant to all chemicals and acids
- Flexible dimensions (length, width and depth)
- Suitable for all kinds of substrates
- Suitable for any drainage system
- Easy to assemble
- 5 year warranty

HINTS FOR GROWING IN SOILLESS CULTURE IN MAPAL TROUGHS

- **ROOTING:** roots are spread and not confined to a limited area. They can seek and share water and fertilizers all over the trough space.
- **IRRIGATION:** a simple drip line is more than enough. Expensive drip system is not required.
- **CLIMATE AND HUMIDITY CONDITIONS:** better aeration, temperature moderation and humidity circulation.
- **STERILIZATION:** It is easy and safe to sterilize the substrate while inside the trough using any recommended system: steaming, chemical or solar.
- **REPLANTING:** the previous crop is easily removed in one piece from the trough. New plants can be easily planted after sterilization.

Important Information for Users:

The required slope for assembling the troughs is around 1.5%. Uniformity of the slope is important.

For Technical Assistance:

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